



DIABETES IN COLLETON COUNTY

SC Department of Health and Environmental Control

◆ Diabetes Control Program ◆ Chronic Disease Epidemiology Branch
Diabetes Initiative of South Carolina

Diabetes mellitus, a chronic disease characterized by elevated blood sugar levels, is a significant contributor to morbidity and mortality in South Carolina and throughout the United States. Diabetes can cause debilitating and costly complications such as blindness, renal failure, lower extremity amputations, and cardiovascular disease. Much of the health and economic burden of diabetes can be averted through known prevention measures.

In 1998, 5.7 percent of South Carolina adults, equivalent to approximately 163,000 adults, reported having been diagnosed with diabetes. Diabetes was the sixth leading cause of death in South Carolina claiming 1,029 lives in 1997 and contributing to another 3,014 deaths. This report presents the burden of diabetes in Colleton county.

Behavioral Risk Factors

Table 1 displays the prevalence of major behavioral risk factors for diabetes and its complications in Colleton county and SC in 1998.

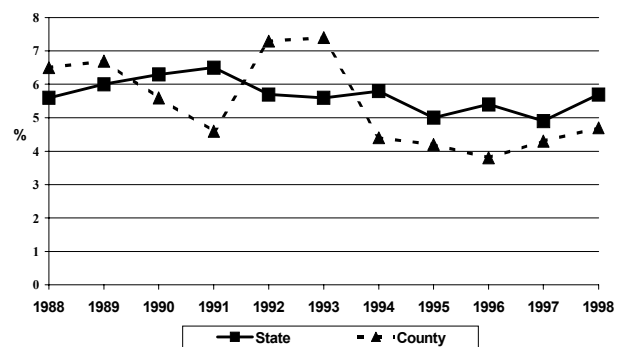
Table 1. Prevalence (%) of
Behavioral Risk Factors for Diabetes

	Colleton County SC	
Overweight	52.2	52.3
Current Smokers	22.5	24.7
Physical Inactivity	59.0	61.6
Consuming fruits and vegetables less than 5-A-Day	76.3	78.2
High Cholesterol (1997)	23.0	24.4
Hypertension (1997)	26.1	26.7

Prevalence

In 1998, there were approximately 1,289 adults (4.7%) aged 18 and older living in Colleton county who have been told by a doctor some time in their life that they have diabetes (Figure 1).

Figure 1. Prevalence of Self-Reported
Diabetes among Adults, Colleton, 1988-1998



Morbidity and Complications

In 1997, there were 166 hospital discharges with diabetes as the primary diagnosis among Colleton county residents. During the same year, there was an additional 1086 hospital discharges with diabetes-related condition. African-Americans had more hospitalizations for diabetes than whites: 104 (62%) for diabetes as the primary diagnosis, and 586 (54%) for diabetes as a related condition.

In 1997, hospital charges for hospitalizations of Colleton county residents having diabetes as primary diagnosis were up to \$1.2 million and \$13.2 million for diabetes as a related condition. The total length of hospital stay for diabetes as the primary diagnosis was 1,135 days.

Colleton county patients with diabetes who had diabetes-related complications in 1997 included:

- 130 (10.6%) with renal manifestations;
- 40 (3.2%) with lower extremity amputations related to diabetes;
- 45 (3.6%) with diabetic ketoacidosis;
- 51 (4.1%) with renal failure;
- 94 (7.6%) with dialysis.

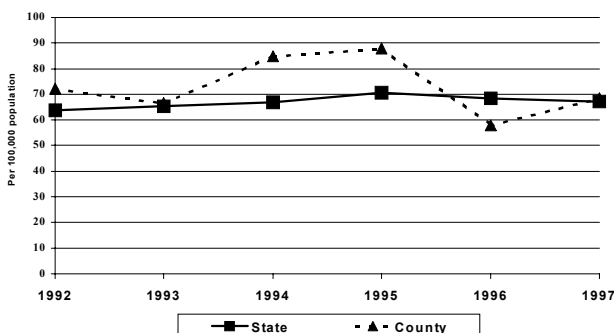
Adults with diabetes are at increased risk of developing cardiovascular disease. Out of 1,226 hospitalizations for patients with diabetes, 994 (81%) had cardiovascular diseases, and 119 (9.7%) had stroke.

In 1997, there were 82 emergency room (ER) visits for diabetes as the primary diagnosis, among which 56 (68.2%) were for African-American patients. In addition, there were 530 ER visits for diabetes as a related condition. Total ER charges for diabetes as the primary diagnosis was \$37,512.

Mortality

In 1997, diabetes was listed as the underlying cause of death for 17 residents of Colleton county. This is an age-standardized mortality rate of 36.7 per 100,000 population, close to the state average of 39.2 per 100,000 population (Figure 2). Diabetes was listed as a contributing cause in 31 deaths in Colleton county; a standardized mortality rate of 68.4 per 100,000 population.

Figure 2. Age-Adjusted Mortality Rate of Diabetes, Colleton, 1992-1997



A total of 210 potential years of life were lost in 1997 because people died prematurely from diabetes. Diabetes mortality in Colleton county follows the national pattern of diabetic mortality that African-Americans have higher mortality rates than whites. African-American men had the highest standardized mortality (129.6 per 100,000 population) among all race-sex groups.

Colleton County Resources

Debbie Sprouse, RN, BSN, CDE
DHEC Trident Home Health
Program Coordinator
1941 Savage Road
Charleston, SC 29407
(843) 724-5850

Marti Chitwood, RD, CDE
St. Francis Xavier Home Health
1483 Tobias Gadson Blvd., Suite 208
Charleston, SC 29407
(843) 556-4044

Pamela Arnold, RN, MSN, CDE
Medical University of South Carolina
Diabetes Center of Excellence
171 Ashley Avenue
Charleston, SC 29425
(843) 876-0973

